## **WHAT IS CLAIMED IS:**

- 1. A thin film transistor array panel comprising:
- a substrate;

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a gate electrode;

electrode through the contact hole.

- 5 a gate insulating layer formed on the gate electrode;
  - a polysilicon layer formed on the gate insulating layer and including a pair of ohmic contact areas doped with conductive impurity;

source and drain electrodes formed on the ohmic contact areas at least in part;

- a passivation layer formed on the source and the drain electrodes and having a contact hole exposing the drain electrode at least in part; and
- a pixel electrode formed on the passivation layer and connected to the drain
- 2. The thin film transistor array panel of claim 1, wherein the conductive impurity comprises boron or phosphorous.
  - 3. The thin film transistor array panel of claim 1, wherein concentration of the impurity ranges from about  $1\times10^{14}$  to about  $1\times10^{16}$ .
  - 4. The thin film transistor array panel of claim 1, further comprising:
    - a gate line disposed between the substrate and the gate insulating layer and connected to the gate electrode; and

a data line disposed between the gate insulating layer and the passivation layer and connected to the source electrode.

5. A method of manufacturing a thin film transistor array panel, the method5 comprising:

forming a gate electrode;

depositing a gate insulating layer and a polysilicon layer on the gate electrode in sequence;

forming a photoresist having a first portion and a second portion thinner than

the first portion on the polysilicon layer;

patterning the polysilicon layer using the photoresist as a mask to form a semiconductor layer;

removing the second portion of the photoresist;

performing impurity implantation using the first portion of the photoresist as a mask to form ohmic contact areas in the semiconductor layer;

removing the first portion of the photoresist;

forming source and drain electrodes on the ohmic contact areas;

forming a passivation layer having a contact hole on the drain electrode; and forming a pixel electrode on the passivation layer.

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6. The method of claim 5, wherein the formation of the photoresist comprising:

coating a photoresist film on the polysilicon layer;

exposing the photoresist film through a photo-mask having a slit pattern or a translucent portion facing the second portion of the photoresist; and developing the photoresist film to form the photoresist.

5 7. The method of claim 5, wherein the impurity comprises p type conductive impurity.